

ABSTRACT

Disclosed is a check valve comprising a valve plate having an inlet hole that draws in a low pressure fluid by an open-and-shut operation driven by a piston movement, and a discharging hole that discharges a high pressure fluid through an open-close operation; and a check valve shaped in a helical plate spring structure coupled with the inlet hole and discharging hole of the valve plate.

Accordingly, an interference in a flow of the fluid is minimized while the valve is opened, thereby the flowing efficiency of the fluid is enhanced, and the valve is closed smoothly along to a helix, thereby noises and damage to the system caused by shock are prevented.